
Chad William Hoyt

July 26, 2000 (rev. Sept. 4, 2001)

Curriculum Vitae

Optical Sciences and Engineering
Department of Physics and Astronomy
University of New Mexico
800 Yale Blvd. NE, Albuquerque, NM 87131

Phone: 505-277-3301
Fax: 505-277-1520
hoycha@unm.edu
orpheus.phys.unm.edu/~sbahae

Positions Held:

1998-Present	<i>Research Assistant</i>	University of New Mexico
	Optical Refrigeration and Nonlinear Optics	
	Supervisor: Mansoor Sheik-Bahae, Associate Professor of Physics	
1995-1998	<i>Adjunct Instructor</i>	Bethel College, St. Paul, MN
	Introductory Physics and Laboratories	
	Supervisor: Brian Beecken, Professor of Physics	
1994-1995	<i>Teaching Assistant</i>	University of New Mexico
	Undergraduate Optics and General Physics	
	Supervisor: John McIver, Professor of Physics	
1993-1994	<i>Teaching Assistant</i>	Bethel College, St. Paul, MN
	Undergraduate Optics	
	Supervisor: Richard Peterson, Professor of Physics	

Education:

B.S.	1994	Physics	Bethel College, St. Paul, MN
Ph.D. Candidate	2000	Optical Sciences	Physics and Astronomy, University of NM

Honors and Awards:

2001	Best Mentor, University of New Mexico PURSUE program
2000	Winner, OSA New Focus Student Award
2000	Research, Project and Travel Grant, awarded by UNM Graduate Studies
2000, 2001	Elected President, OSA UNM Student Chapter
1992-93, 1993-94	Gruez Physics Scholarship
1994	Best Presentation by an Undergraduate, Minnesota American Association of Physics Teachers meeting, Moorhead State University

Chad William Hoyt

Publications and refereed conferences:

- “Observation of anti-Stokes fluorescence cooling in thulium-doped glass,” C. W. Hoyt, M. Sheik-Bahae, R. I. Epstein, B. C. Edwards, and J. E. Anderson, *Physical Review Letters* **85**, 3600 (2000).
- “Holographic real-time imaging of standing waves in gases,” R. W. Peterson, S. Pankratz, T. Perkins, A. Dickson, C. W. Hoyt, *American Journal of Physics* **64**, 1139 (1996).
- “Realization of anti-Stokes fluorescent cooling in thulium-doped glass,” C. W. Hoyt, M. Sheik-Bahae, R. I. Epstein, B. C. Edwards, and J. E. Anderson, in *Proceedings of Annual Meeting of the Optical Society of America* (OSA, Providence, RI, 2000).
- “Observation of anti-Stokes fluorescent cooling in thulium-doped glass,” C. W. Hoyt, M. Sheik-Bahae, R. I. Epstein, B. C. Edwards, and J. E. Anderson, in *Post-deadline Papers of Quantum Electronics and Laser Science* (QELS, San Francisco, CA, 2000), p. 17.
- “High-power picosecond singly resonant optical parametric oscillator,” C. W. Hoyt, A. Bauer, and M. Sheik-Bahae, in *Proceedings of Opto-Southwest* (Opto-Southwest, Albuquerque, NM, 2000), p. 37.
- “High power optical parametric oscillators for optical refrigeration in solids,” M. Sheik-Bahae, C. W. Hoyt, M. Ebrahimzadeh, B. C. Edwards, R. I. Epstein, in *Nonlinear Optics: Materials, Fundamentals, and Applications* (Optical Society of America, Kaua'i-Lihue, Hawaii, USA, 2000), p. 30.